2022

Murray City Fire Department



Annual Report



Brett Hales, Mayor Joseph Mittelman, Fire Chief 801-264-2780

Message from the Chief ...

It is with great honor that I submit the Murray City Fire Department's 2022 annual report.

On February 15, 2022 Fire Chief Jon Harris retired after 27 years of service with Murray City Fire Department. With the Mayor's submission of my name to the City Council, and following their ratification, I was sworn in that evening as the new fire chief. As I ponder about the many leaders who have helped prepare me, I am grateful and humbled to serve Murray City in this position. I will continue to place the service we provide to the citizens, employees, and businesses as our highest priority.

The employees who work for Murray City Fire Department are truly amazing, responding to a record high number of calls throughout the year with dedication and competence. While having less time for secondary assignments, we adjusted a few administrative positions to better assist the captains and their respective firefighters to focus on emergency response. Staying within our allocated budget, we were able to assign administrative battalion chiefs over medical, fire operations, logistics/emergency management, and fire prevention. We also assigned a captain to the deputy fire marshal position, providing an opportunity to gain experience and career development in the field of fire prevention.

Over the past year I have been more than pleased with the level of professionalism, knowledge, and ability of each member in our department. We have great leaders within all ranks who will serve Murray with excellence for years to come. I believe the best advice I've been given is, "surround yourself with the smartest people you know and continue to support them within each of their positions."

Please enjoy getting to know Murray City Fire Department by reading our 2022 annual report. I would like to encourage anyone within my influence to follow your dreams and gain education through experience, formal education, and a pursuit of lifelong learning.

Sincerely,

CITY FIRE DEPARTMENT

Joseph Mittelman

Fire Chief

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Mission Statement

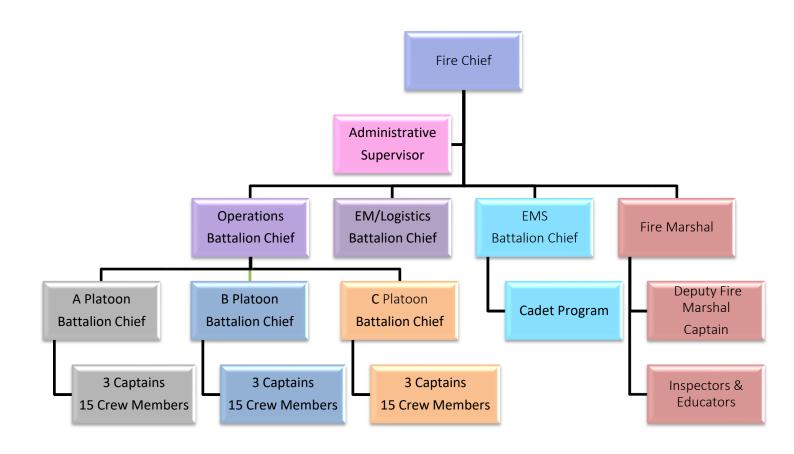
The role and mission of the fire department is to provide fire protection, fire prevention and emergency medical services to the residential and business population of the city, with a well-trained staff in an organized and safe manner, at a minimal cost to the city, and to cooperate with other departments within the city.

- Murray City Code, Section 2.22.010





Murray City Fire Department Organization Chart



Retirements, Promotions, and New Hires

Early in the year, Fire Chief Jon Harris announced his intent to retire. With his retirement quickly approaching (mid-February), the position was offered to Joseph Mittelman (who was serving as Assistant Chief / Fire Marshal) by Mayor Brett Hales, contingent upon the ratification by the City Council on February 15th. Assistant Chief Chad Pascua also retired from the department in March. Relinquishing of these two top positions created openings for qualified candidates to promote and the restructuring of our command staff.

New hires in 2022 included the following: In February, Bader Alharbi, Brian Carreiro, and Andrew Sommer were hired as firefighter / EMT's. Bader Alharbi, completed the paramedic course and was certified in August. Tyler Esprit, who was hired in 2021, was enrolled in paramedic school and will attain certification with the State in 2023. In June, Sam Pascua and Zach Larsen joined our staff as paramedics. Sam was previously employed with West Jordan Fire Department and Zach worked for Pleasant Grove Fire Department. Additionally, in August we were able to add Craig Howell to our department as a paramedic. Craig was previously employed as a full-time flight paramedic for the Army National Guard.



Fire Chief Joseph Mittelman

Murray's new Fire Chief is a natural for the position, given the fact that public service is practically a part of who he is. At a young age, growing up in Payson, Utah, both his parents were volunteers on the ambulance.

As a Freshman in High School, he took his first EMT class, which was offered through Mt. Nebo Training, a company owned by his parents. In 1999 he completed his firefighter training at the Utah Valley State College (UVSC), and at 18 years old he received certification with the State as an Emergency Medical Technician (EMT). At the age of 19, he was enrolled in the second class of paramedic training at the Utah Valley University (UVU).



His first job as an EMT was with the Delta Center, then in 2001 he was working full-time with South Salt Lake Fire Department. Looking back, he finds it uncanny that he performed his first intubation at the age of 18, and was driving a fire engine at the age of 19.

In 2006, his father formed the Mt. Nebo/University of Utah Paramedic Program, a program he was able to participate in as an educator. With a strong desire to learn, as well as set and achieve his goals, he attained his Master's Degree in 2009. In 2005, he made the move to Murray Fire Department, serving as Training Officer and working as a Paramedic/Firefighter, and later as a Captain. In 2018, he was promoted to the position of Assistant Chief while, at the same time, serving as Fire Marshal for the department.

As Chief, he is faced with record high numbers in calls and how best to meet the needs of this community. With the majority of calls being medical, it is critical for the department to be staffed appropriately with paramedics, provide necessary training and certifications, and procure the most up-to-date equipment available.

Chief Mittelman and his family love spending time together doing various activities in the outdoors. But he also enjoys the brotherhood and being part of a huge firefighter family.



Fire Prevention Division

Jeff Puls was promoted to the position of Fire Marshal, filling the vacancy when Joseph Mittelman was promoted to Fire Chief. This caused a ripple effect in that division with positions being filled by qualified candidates.

A new electronic reporting systems was put in place for documenting and tracking fire investigations and inspections.

The Knox Box program, which included the upgrading and distributing of new Knox Boxes to area businesses, was completed. This was a major accomplishment and was carried out in large part by one of our long-term cadets, Ben Beal. Use of this system provides secure and safe access for first responders to enter commercial buildings without forced entry or waiting for a property owner to unlock doors in an emergency situation.

In addition to Community Emergency Response Team (CERT) classes, monthly community CPR and First Aid classes, were instructed on the second Tuesday of each month. Classes were also provided for the staff at the Senior Recreation Center, high school coaches, private schools, churches, medical office staff, personnel at Wheeler Farm, and other businesses requesting instruction.

The week of October 9-15, was celebrated as Fire Prevention Week. This year's theme was "Fire Won't Wait. Plan Your Escape." Fire staff worked with the elementary schools in educating second graders in fire safety, along with the Murray City Library Pre-School Readers, and the Senior Recreation Center.



2022 Fire Prevention Statistics

New Business Inspections	705
*Follow-Up Business Inspections	236
Final Occupancy Inspections	31
Temporary Occupancy Permits	16
Fuel Tank Installs/Removals	6
Knox Box / Riser / FDC	118
Fire Alarm / Sprinkler Plan Permit	94
Plan Reviews	157
Rough Inspections / Alarm Tests	246
Food Truck Inspections/Permits	55
Firework Stand Inspections	19
Tent Inspections	9
Fire Investigations	45
Public Education, CPR, CERT, First Aid	47
Citizen Concerns / Complaints	82
Trainings	68

^{*}Follow-ups of new businesses prior to approval.



Facilities

Fire Station 81 – Headquarters 4848 S Box Elder Street

Station 81, a two-story 23,255 square foot facility was completed in April 2020. This building continues to serve as department headquarters. A paramedic fire engine, ambulance, reserve pumper, reserve brush truck, command vehicle, and BC rig are all housed at this station.



Fire Station 82 – 996 East Vine Street

Building of this facility was complete in the spring of 2008, and was built to provide emergency response to the newly annexed areas on the city's east side. A paramedic fire engine, ambulance, reserve pumper, special ops vehicle, and a haz-mat trailer are housed at this station.



Fire Station 83 – 484 West 5900 South

Station 83 was ready for occupancy in the spring of 2009. At 17,000 square feet, this building is also the new home of the City's Emergency Operations Center. The 95-foot mid-mount platform, a paramedic fire engine, and ambulance are dispatched out of this station. It also houses our type 6 brush truck and a reserve pumper.



Fire Station 84 – 163 East 5900 South

Construction of this station was completed in May 1997, built to provide service to the southeast quadrant of the city. However, when annexations increased the city's east-side boundaries a new station was built, providing emergency response to that area. It currently serves as the main distribution point for medical



supplies and houses two reserve ambulances.

Fire Department Fleet



Station 81

1989 Chevrolet One Ton

2001 Pierce Engine

2006 Chevrolet Mobile Command Vehicle
2019 Ford Crew Cab Horton

2021 Pierce Engine

Type 6 Wild Land Brush Unit / Snow Plow
1500 GPM Pumper w/water (Reserve)

Special Ops / Mobile Command Center
Ground Ambulance
1500 GPM Pumper w/water

Station 82

2002 Enclosed Trailer Haz Mat / Special Ops 2005 Ford F-550 Truck Haz Mat Tow Vehicle

2005 Pierce Engine 1500 GPM Pumper w/water (Reserve)

2019 Pierce Engine 1500 GPM Pumper w/water

2021 Ford Crew Cab Horton Ground Ambulance

Station 83

2009 Pierce Mid-Mount Platform
1500 GPM Tower w/water
2013 Dodge 5500
Type 6 Wild Land Brush Unit

2016 Pierce Engine 1500 GPM Pumper w/ water (Reserve)

2018 Dodge 4500 Horton Ground Ambulance

Station 84

2003 Ford F-350 Reserve Ambulance (Wild Land)

2017 Dodge 4500 Horton Reserve Ambulance

Administration

2006 Dodge Ram Pick-UpReserve Vehicle2009 Ford F-150 Pick-UpReserve Vehicle2010 Ford EscapeFire Inspector Vehicle2014 Ford ExplorerDeputy Fire Marshal Vehicle2014 Ford FusionP.T. Fire Inspector Vehicle

2015 Ford Fusion Logistics/Emgy Mgt. Battalion Chief Vehicle

2017 Ford Explorer EMS Battalion Chief Vehicle

2019 Ford Explorer Operations Battalion Chief Vehicle

2020 Ford Escape Fire Chief Vehicle

Murray City Armory

2005 MMD Portable Generator 100 kw Portable Diesel Generator

Utah Museum of Fire Service History

1947 American LaFrance Antique Apparatus

Fire Apparatus and Ambulance Fleet

When someone calls 911, they may be facing a wide range of potential emergency situations – the situation might require the fire service, police, or emergency medical care – and possibly a combination. When fire personnel are dispatched to the scene, they respond in the appropriate apparatus with gear based on the crisis.

Responsible fleet management is imperative in meeting our objectives, staying within budget, and delivering a high standard of service. Vehicle maintenance is crucial in keeping our vehicles in service, operating properly and safely. Keeping up with technology is also a major factor. Our vehicle replacement cycle is determined by many factors, including the maintenance history as well as how many hours are on the engine and transmission. Keeping in mind that there's a break over point where the cost to keep the truck on the road becomes more than it's worth.

Engines and Trucks:

A purchase contract was signed with Siddons-Martin for a Pierce 107' aerial ladder truck, which has a delivery date in 2025.

A Ford Ranger was recently purchased for use in the Fire Marshal's division. This vehicle gets used extensively for hauling equipment on fire investigations.

A new brush truck bed has been completed by Apparatus Equipment Supply, and we are now awaiting the chassis.

A new Battalion Chief response vehicle is complete and ready to be customized to carry gear and equipment, along with communication equipment to satisfy the initial incident command structure.

Ambulances:

Five ambulances are available for transport, including two reserves that also can serve in mutual aid needs during times of wildland fires and other natural disasters. We take pride in keeping our fleet current with the latest technology and safety items. With a five-year rotation plan, our oldest ambulance is either refurbed or we purchase a new one.

We are currently under contract for the purchase of a new ambulance that should be delivered in the spring of 2023. It is a crew cab 4x4, which will be able to efficiently respond during the unpredictable winter season. The 4WD provides a drivetrain that allows all four wheels to receive torque from the engine simultaneously. In low-traction conditions such as ice, snow, mud or loose gravel, this provides better handling which will help reach an emergency scene safer and faster than a non- 4x4 ambulance.

Each ambulance is staffed with a minimum of two paramedics and when staffing permits, we can run with three. This ensures the highest level of care on medical incidents.

Equipment:

A committee was formed to research the best available package for our Self-Contained Breathing Apparatus (SCBA), and 35 new MSA G1 air packs were acquired. Each pack is able to Bluetooth with the future purchase of radios (expected early 2024), which will aid in better fire ground communications. Each pack is also outfitted with a thermal imaging camera (TIC) which improves firefighter safety tremendously and will aid in quicker searches for fire victims needing rescue.

The process was put in motion for identifying our next hand-held radio purchase. With the new technology, these radios will be able to Bluetooth with our new MSA G1 air packs and will be compatible with the new P 25 radio system that launches in 2024. The three available brands being considered are Kenwood, Motorola, and L3 Harris.







Fire Training Highlights

In order to survive, firefighters must be able to think clearly, and solve problems logically and quickly, while under extreme stress. This can be especially difficult in an actual fire, so training in various capacities is imperative. In addition to in-house training, our personnel attended numerous outside agency training opportunities throughout the year.

A few of the major courses provided by outside agencies included, the National Fire Academy, UTA (a TRAX train accident scenario), International Association of Arson Investigators, IMC (a helicopter crash scenario), and IMC (scenario involving a shooting incident). We were also, on many occasions, able to participate in training scenarios at the abandoned Utah State Prison facility before demolition of the structure began.





Training 2022











Training 2022







Fire Cadet Program

Our cadet program allows young adults, ages 16-21 years, who are interested in learning about the fire service to get involved on a part-time basis and experience what it's like to be a firefighter. Restrictions brought about during the Covid-19 pandemic put a hold on our cadet program. Returning to a pre-pandemic status, our cadet program was reinstated, and in June three cadets joined the program, and an additional cadet joined in July.

The program was developed to instill in each cadet, a sense of character, confidence, and self-esteem. The program also teaches fire/rescue skills, self-discipline and respect. Cadets participate in training related to fire prevention, control, and emergency medical services. They are able to participate in formal training as well as individual instruction as applicable, and are also given practical assignments and often assist with department and community events.

Cadets are not allowed to participate or be exposed to hazardous conditions. Hazardous conditions may include, but are not limited to physical, chemical, environmental, or emotional (high stress) hazards. Cadets are not allowed to assist on the scene of emergency incidents



Emergency Medical Services

The Murray Fire Department is dedicated to providing the citizens and visitors of Murray City with compassionate and professional emergency medical care. When a call is made to 911 for a medical emergency, our personnel respond rapidly and will deliver the highest standard of medical care possible.

All Murray Fire personnel are EMTs with most being certified at the paramedic level. Our department currently runs with one ambulance at each of three stations, with one additional reserve; all are staffed with two paramedics and have full advanced life support equipment. EMS accounts for the majority of our calls. In 2022, the department responded to 5,859 emergency medical calls which represents 83% of our total call volume.

All paramedics and EMTs are trained to the highest level and train continuously to keep their skills sharp and ready to be used at all times. Our EMS personnel have received many compliments and awards for their life saving actions.

Although Covid-19 was in a relatively "stable" state in the United States, we have maintained our CLIA certification authorizing rapid testing for all our public safety personnel. This test determines a COVID-19 negative or positive with the use of swab and test card with results available within minutes. These test kits are provided by the State of Utah Health Department for testing of our employees with symptoms or a significant exposure.

We have been fortunate to have Dr. Adam Balls as our Medical Director for the past six years. Under his direction, Dr. Balls oversees the on-going medical training and nationally recognized certifications for all fire department members. He regularly meets with crews to go over cases to provide insight about treatments and better patient care to our citizens and visitors.

The week of May 15-21, was proclaimed "Emergency Medical Services Week." A Proclamation was read in City Council Meeting, recognizing all EMS providers for the services they render. Paramedic Jake Christensen, who has been with our department since 2008, received the award from St. Mark's Hospital as "Outstanding EMS Provider."



Total Medical Calls & Transports by Month

Month	Medical Calls	Transports	Transport Percentage
January	479	228	48
February	436	207	47
March	444	187	42
April	466	230	49
May	484	223	46
June	564	268	48
July	541	237	44
August	530	246	46
September	468	206	44
October	450	199	44
November	464	218	47
December	533	249	47
Totals	5,859	2,698	47%

2022 Nature of Medical Call

Description	Calls
Sick Person	765
Falls	679
Vehicle / Traffic Accident	523
Breathing Problem	472
Unconscious / Fainting	350
Psychiatric	302
Unknown / Person Down	284
Seizure	277
Overdose / Poisoning	268
Chest Pain – (Non-Traumatic)	258
Cardiac Arrest / Death	154
Abdominal Pain	146
Assault	145
Traumatic Injury	143
Lift Assist	136
Stroke / CVA	123
Welfare Check / Medic Alarm	117
Hemorrhage / Laceration	102
Diabetic Problem	94
Heart Problem	93
Blood Draw (Assist PD)	76
Auto vs. Pedestrian or Bicycle	53
Allergic Reaction / Stings	49
Back Pain – (Non-Traumatic)	45
Weakness/ Lethargic	37
Headache	27
Pregnancy / Childbirth / Miscarriage	26
Choking	25
Stabbing / Gunshot / Penetrating Trauma	23
Medical Standby	15
GI Bleed	12
Animal Bite	11
Heat / Cold Exposure	10
Burn Patient	6
Eye Problem / Injury	2
Other Calls	11
Total	5,859

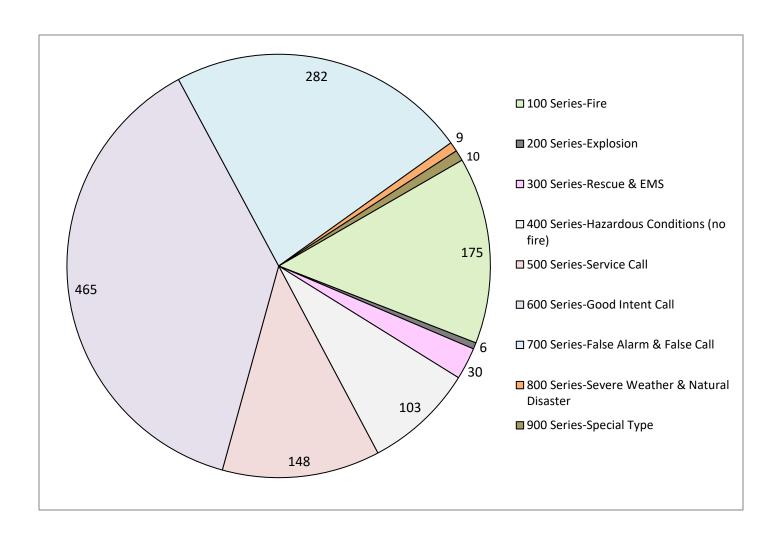
Calls canceled prior to arrival: 428 - Canceled on/after arrival: 276

Fire Incidents by Type

Series	Type of Incident	Total Incidents
111	Building / Structure Fire	55
113	Cooking Fire (Confined)	20
114	Chimney or Flue Fire (Confined)	2
131	Passenger Vehicle Fire	25
136	Motor Home, Recreational or Transport Vehicle	4
142	Brush / Grass Fire	33
151	Outside Rubbish, Trash or Waste Fire	15
154	Dumpster or Outside Trash Receptacle	17
161	Outside Storage Fire	1
162	Outside Equipment Fire	3
211	Overpressure of Steam, Gas or Air Pipe	2
251	Excessive Heat / No ignition	4
311	Medical Assist	7
331	Lock In	5
352	Extrication of Victim from Vehicle	4
353	Removal of Victim from Elevator	13
356	High-Angle Rescue	1
411	Gas or other Flammable Liquid Spill	10
412	Gas Leak	50
424	Carbon Monoxide Incident	13
442	Overheated Motor	3
444	Power Lines Down	12
445	Arcing, Shorted Electrical	9
451	Bio Hazard	2
461	Building/ Structure Weakened or Collapsed	2
463	Vehicle Accident, Clean-Up	2

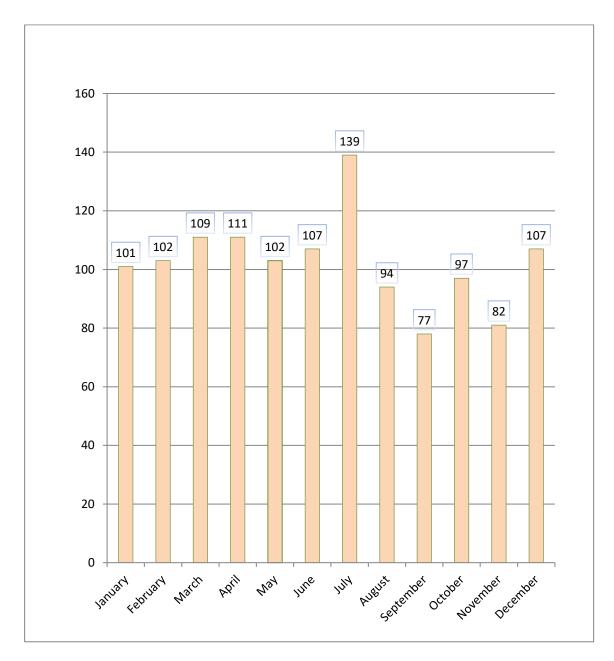
Series	Type of Incident	Total Incidents
511	Lock Out	16
521	Water Evacuation	1
522	Water or Steam Leak	21
531	Smoke or Odor Removal	23
542	Animal Rescue	13
551	Assist Police or Other Governmental Agency	9
553	Public Service	51
554	Assist Invalid	5
555	Defective Elevator – No Occupants	4
561	Unauthorized Burning	5
611	Dispatched and Canceled Enroute	412
622	No Incident Found	7
651	Smoke Scare, Odor of Smoke	32
652	Steam, Vapor, Fog or Dust, thought to be Smoke	4
671	Haz-Mat Investigation w/no Haz-Mat	10
700	False Alarm, False Call	86
710	Malicious, Mischievous False Call	7
730	Smoke / System Alarm Malfunction	156
731	Sprinkler Activation Malfunction / Unintentional	9
746	Carbon Monoxide Detector Activation	24
812	Flood Assessment	9
900	Special Type of Incident, Other	7
911	Citizen Complaint	3
	Total Number of Incidents	1,228
	Total Number of Incident Types	49

Total of Fire Incidents in Series



Type of Incident	Total of Incidents
100 Series – Fire	175
200 Series – Explosion	6
300 Series – Rescue & EMS	30
400 Series – Hazardous Conditions (no fire)	103
500 Series – Service Call	148
600 Series – Good Intent Call	465
700 Series – False Alarm & False Call	282
800 Series Severe Weather & Natural Disaster	9
900 Series – Special Type	10

2022 Fire Response by Month

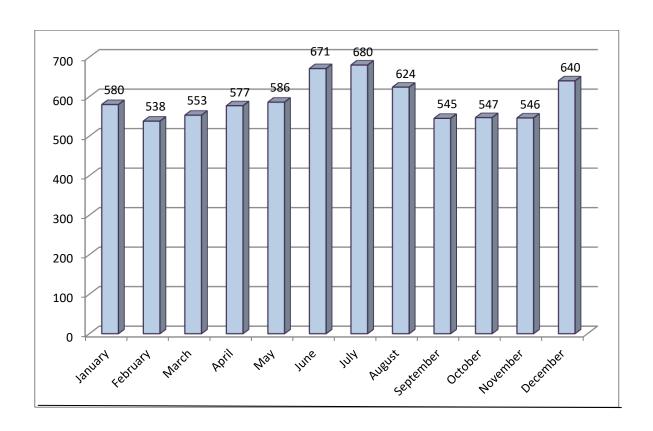


Vehicle Locator (AVL) dispatch. The closest response unit is dispatched regardless of jurisdiction.

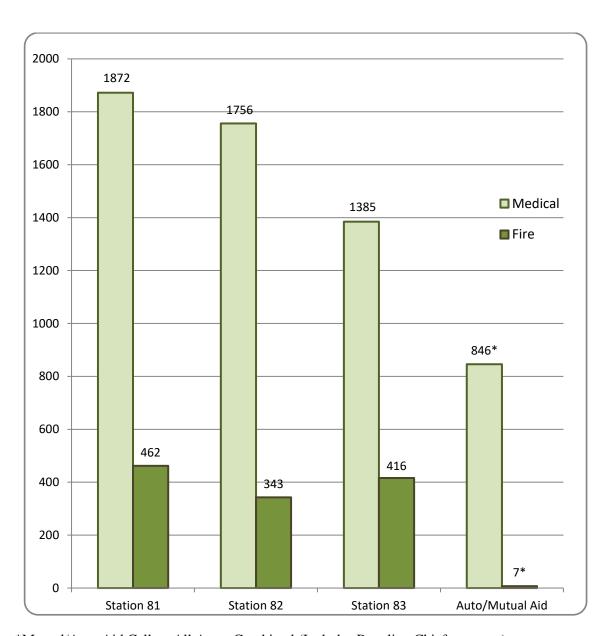
Total Fire Calls: 1,228

Total Fire & Medical Calls by Month

Month	Total Calls
January	580
February	538
March	553
April	577
May	586
June	671
July	680
August	624
September	545
October	547
November	546
December	640
Total	7,087



Fire and Medical Calls by Zone



^{*}Mutual/Auto Aid Calls = All Areas Combined (Includes Battalion Chief response)

Percent of Calls by Station:

Medical Fire

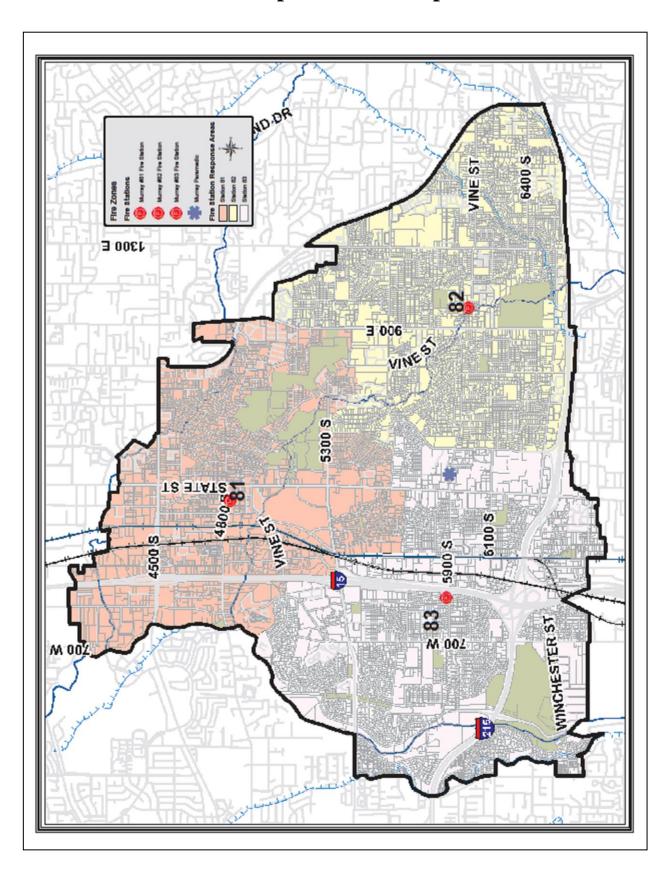
 Station 81: 37%
 Station 81: 38%

 Station 82: 35%
 Station 82: 28%

 Station 83: 28%
 Station 83: 34%

All calls are dispatched by Automatic Vehicle Locator (AVL) technology.

Response Area Map



Emergency Management

On March 23rd, an Emergency Operations Center (EOC) drill was conducted with a simulated public unrest scenario. The Mayor and his staff, and all department heads, participated at some level in working together to address the incident as described in the scenario.

On April 21st, our city participated in the Great Utah Shakeout Drill. At 10:15 a.m. everyone was encouraged to Drop, Cover, and Hold on for at least 60 seconds—at home, at work, at school, anywhere—as if there were a major earthquake occurring at that very moment. The main goal was for Utahns to be prepared for what to do before, during, and after a major earthquake. Fire crews conducted damage assessment along predetermined routes. MARC HAM radio club conducted a radio drill and ascertained that "Just in Time" (JIT) kits, prepared by S.A.F.E. Neighborhoods (Schools Aid Families in Emergencies), were available at Murray Elementary Schools.

Various other drills that involved our Emergency Management staff included: TOSH Active Shooter, IMC Life Flight crash on helipad, Murray City Police Department tabletop exercise for Fashion Place Mall riots, and an Evacuation Drill with Select Health.





EOC Drill – March 23, 2022

Grants

The Murray City Fire Department continues to receive grant assistance from the Utah Bureau of Emergency Medical Services. Grants are awarded based on per capita allocations. The Fire Department was awarded \$5,740 in per capita funds this year that were utilized for purchasing medical equipment.

The Emergency Management Performance Grant (EMPG) was applied for and received in the amount of \$15,000 and was used to help cover costs in the Emergency Management division.



Community Involvement

Our involvement in community events is often solicited by charities and organizations and, when appropriate, we take the opportunity to participate. A few of the events during the year included: A Fathers' Day celebration at the Senior Recreation Center; Murray Fun Days; the Chili Cook-Off at America First Field – *home of Real SL Major League Soccer* (benefitting the U of U Kids Burn Camp programs); First Responder event at Lowe's during *Fire Safety Month*; Fire and Police Safety Fair; the annual Memorial Mortuary Trick-or-Treat event; Operation Santa (shop with Police & Firefighters); Operation Cover-Up (collection of coats and blankets for the homeless); and Sub-for-Santa.

And this year, our department hosted a pancake breakfast giving citizens the opportunity to visit Station 81 and learn more about the services we provide.



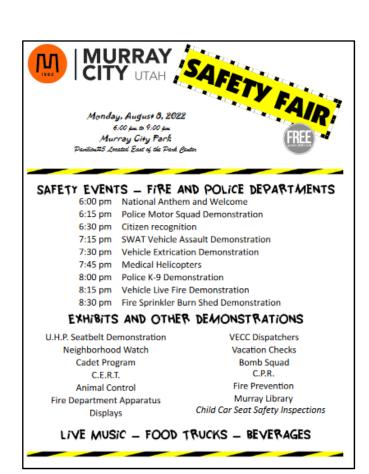


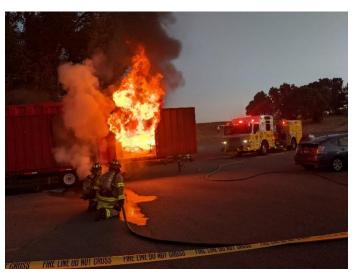
Pancake Breakfast – May 21, 2022





Fun Days – July 4, 2022





Safety Fair Demonstration – August 8, 2022





Chili Cook-Off at America First Field in Sandy - October 8, 2022

